IN THE CLAIMS

(Currently Amended) A continuous casting mold for casting molten metals, particularly molten steel materials, at high casting rates to form polygonal billet, bloom, and preliminary section castings and the like comprising a tubular mold made of copper or of copper alloys whose entry cross-section on the pouring-in side has a crosssection which is enlarged compared to the exit cross-section on the casting exit side and corner radii, characterized in that wherein the inner geometrical cross-section form and the associated measurements are designed analogous to the locally deducible quantity of the solidification heat for the continuous casting according to the progression of the temperature diagram across the mold height, starting with the cross-section enlargement on the pouring-in side opposite the exit cross-section on the casting exit side, wherein on the pouring-in side in the area of the casting mirror a section of great conicity, and immediately adjacent a section of greater conicity, and under the section of greater conicity, a continuously variable conicity according to the casting shell growth and the contraction of the continuous casting until the exit cross-section is successively arranged such that the wall volume is reduced according to the dissipated heat quantity per time unit and diagram across the mold height by enlarging the exterior surface of the tubular mold by means of notches or the like and by reducing the wall thickness in at least separate height ranges analogous to the thermal expansion of the mold.

- 2. (Currently Amended) The continuous casting mold according to claim 1, characterized in that wherein the exterior form is reduced at least in separate height ranges of the tubular mold analogous to the thermal expansion of the mold.
- 3. (Currently Amended) The continuous casting mold according to one of claims 1 or 2, characterized in that claim 1, wherein the tubular mold is designed with regard to its geometrical cross-section forms based on the respective steel grade.
 - 4. (Currently Amended) The continuous casting mold according to claim 1, characterized in that wherein starting at the entry cross-section a centric, approximately parabola-shaped recess is provided for each cross-section side.
 - 5. (Currently Amended) The continuous casting mold according to claim 4, characterized in that wherein the approximately parabolashaped recess diminishes in the direction towards the casting exit side.
 - 6. (Currently Amended) The continuous casting mold according to one of claims 4 or 5, characterized in that claim 4, wherein the length of the approximately parabola-shaped recess extends approximately into half the tubular mold height.

- 7. (Currently Amended) The continuous casting mold according to one of claims 4 to 6, characterized in that claim 4, wherein the length of the approximately parabola-shaped recess is adapted to the contraction measure at the height of the respective broadside and/or edge of the mold cross-section.
- 8. (Currently Amended) The continuous casting mold according to one of claims 4 to 7, characterized in that claim 1, wherein in the area of a corner radius in the cross-section plane of the entry cross-section one adjoining, circumferentially extending surface each extends downwards to the casting mirror which connects to an analogous identical counter surface starting at the casting mirror until the transition into the geometrical cross-section form.